

Jeff Boundy
LDWF

CAT ISLAND NATIONAL WILDLIFE REFUGE

Owner: The Nature Conservancy (part), U. S. Fish & Wildlife Service (part), George Woodside (part)

Site Location: I surveyed two blocks due to persistent flooding of one of the sites: **1) Blackfork Bayou**, approximately 40 acre block on the NE side of Blackfork Bayou and SE of the refuge road, near the center of irregular Section 75, T3S, R3W, centered at 0.3 mi N, 4.2 mi W of St. Francisville (jct of LA 3057 X LA 10), West Feliciana Parish, Louisiana, approximately 30°47.0' N, 91°26.5' W. **2) Woodside Property**, approximately 80 acres in NW end of triangular Section 76, T3S, R3W, centered at 1.1 mi N, 4.2 mi W of St. Francisville, at approximately 30°47.4 N, 91°26.5' W.

Setting: Both sites are on unleveed Mississippi River floodplain, at roughly 36-40 ft elevation, with a shallow, meandering slough (Blackfork Bayou) passing along one side.

Habitat: The entire site consists of bottomland hardwoods: (sugarberry, overcup oak, bitter pecan, honey locust, cypress, black willow, river birch, etc.). The canopy is closed, with trees fairly old and widely spaced, producing a parklike setting with little ground cover or midstory. The entire site is inundated at times, and twice during the present survey period, with water levels of 1-6 feet. There is a lot of downed woody debris, which is shifted during flooding. The Woodside Property is up to 4 ft higher in elevation than Blackfork Bayou, so floods less, and has more river birch.

Survey summary:

2001: 12 September (Blackfork)
26 October (Blackfork)
4 December (Blackfork)
2002: 17 January (Blackfork)
19 February (Woodside)
18 March (Woodside)
10 May (Woodside)
9 July (Woodside)
16 July (Blackfork)

Bottomland hardwoods 24.21 hours

Herpetofauna: 46 species of amphibians and reptiles are expected to occur on the site, of which 18 (39%) were observed, and one additional species was found near the boundary of the Woodside property. No rare, threatened or endangered species are expected to occur on or near the site. The only species of interest likely to occur on the site is the alligator snapping turtle (*Macrolemys temminckii*). I was surprised by the absence of several species: ground skink (*Scincella lateralis*; although seen along road near entrance gate), cricket frogs (*Acris crepitans*),

diamondback water snake (*Nerodia rhombifer*), and ribbon snake (*Thamnophis proximus*). The composition of the Blackfork site was strictly aquatic or semi-arboreal species. Only 11 species were found there vs. 18 at the Woodside site. The disparity is probably due to 1) increased duration of flooding at the Blackfork site, and 2) survey season of fall, winter and summer at Blackfork, vs. late winter and spring at Woodside.

Only 182 total animals were seen (7.52 per hour), and 67 (37%) of these were leopard frogs (*Rana utricularia*). The nine anuran species observed comprised 81% of all animals seen. There is no particular herpetofaunal interest to the site, and all of the species encountered are generally abundant or common over most of southern Louisiana. However, the site provides a very large block of bottomland hardwood habitat. Although there has been cutting in certain portions, it will probably not effect the dispersal of species between more pristine blocks. The continuity of areas with differential flooding provides an opportunity to determine the effects the flooding regime has on species composition at sites.

CAT ISLAND NWR HABITATS
Specimens/hour

SPECIES	Bottom Hard
Fowler's toad (<i>Bufo fowleri</i>)	0.45
Lesser gray tree frog (<i>Hyla chrysoscelis</i>)	call .08
Green tree frog (<i>Hyla cinerea</i>)	call .41
Squirrel tree frog (<i>Hyla squirella</i>)	call .74
Spring peeper (<i>Pseudacris crucifer</i>)	call .12
Upland chorus frog (<i>Pseudacris feriarum</i>)	call .17
Green frog (<i>Rana clamitans</i>)	0.91
Southern leopard frog (<i>Rana utricularia</i>)	2.77
Eastern narrow-mouthed toad (<i>Gastrophryne carolinensis</i>)	0.41
Common box turtle (<i>Terrapene carolina</i>)	0.04
Pond slider (<i>Trachemys scripta</i>)	0.08
Carolina Green anole (<i>Anolis carolinensis</i>)	0.66
Common five-lined skink (<i>Eumeces fasciatus</i>)	0.08
Broad-headed skink (<i>Eumeces laticeps</i>)	0.04
Gray rat snake (<i>Elaphe spiloides</i>)	0.04
Plain-bellied water snake (<i>Nerodia erythrogaster</i>)	0.21
Banded water snake (<i>Nerodia fasciata</i>)	0.25
Cottonmouth (<i>Agkistrodon piscivorus</i>)	0.04

2001: 12 September: LA: West Feliciana Par: Cat Island National Wildlife Refuge
with P. Faulkner, V. Rettig

7 *Bufo fowleri*

1 *Rana clamitans clamitans*

4 *Rana utricularia utricularia*

1 *Gastrophryne carolinensis*

2 *Nerodia erythrogaster flavigaster*

1 *Nerodia fasciata confluens*

Virginia guided us to the east entrance to the refuge and we stopped on the dirt road just E of the crossing of Blackfork Bayou. The area is mostly closed canopy hardwood forest (sugarberry, overcup oak, bitter pecan, honey locust, cypress, black willow, etc.), with remnant pools scattered about. The bayou has willow and cypress growing in it, and today was about 30 ft across. Virginia pointed out that the inundation line on the trees was over 5 feet high, and that the area floods for some time, often twice each year when the Mississippi River comes up.

0935-1108; start T=79F, ending T=81F; clear at start and end but overcast during most of survey time. I spent a lot of time looking under logs on the clean forest floor, the rest of the time swatting mosquitos. All I saw out was a newly metamorphosed Fowler's toad about 0.5" long. Under logs I found some larger Fowler's toads (0.7-1.2"), a narrowmouth toad, an adult bronze frog, and adult and three subadult leopard frogs, and neonate yellow-bellied and banded water snakes, all a month to three months old probably. Both yellowbellies flattened out and bit when picked up.

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method	Stage
bottomland hardwoods	1.55	81	overcast	Bufo fowleri	6	3.87	VES	juv
bottomland hardwoods	1.55	81	overcast	Bufo fowleri	1	0.65	VES	nmet
bottomland hardwoods	1.55	81	overcast	Bufo fowleri	7	4.52	VES	combd
bottomland hardwoods	1.55	81	overcast	Gastrophryne carolinensis	1	0.65	VES	ad
bottomland hardwoods	1.55	81	part cloud	Nerodia erythrogaster	1	0.65	VES	neon
bottomland hardwoods	1.55	81	overcast	Nerodia erythrogaster	1	0.65	VES	neon
bottomland hardwoods	1.55	81		Nerodia erythrogaster	2	1.29	VES	combd
bottomland hardwoods	1.55	81	overcast	Nerodia fasciata	1	0.65	VES	n
bottomland hardwoods	1.55	81	overcast	Rana clamitans	1	0.65	VES	juv
bottomland hardwoods	1.55	81	overcast	Rana utricularia	3	1.94	VES	juv
bottomland hardwoods	1.55	81	overcast	Rana utricularia	1	0.65	VES	ad
bottomland hardwoods	1.55	81	overcast	Rana utricularia	4	2.58	VES	combd

SITE LA: W. Feliciana Par: Cat Island, SE portion

DATE 12 Sept. 2001

PERSONNEL Jeff Boundy, Patti Faulkner, Virginia Rettig

CLIMATE previous: humid, in 80s; last rain on 8-9 Sept.

today: clear except during survey period; low 80's

[illegible]

2001: 26 October: LA: West Feliciana Par: Cat Island Swamp National Wildlife Refuge

1 *Bufo fowleri*

3 *Rana utricularia utricularia*

1 *Hyla cinerea*

1 *Trachemys scripta elegans*

6 *Rana clamitans clamitans*

2 *Nerodia fasciata confluens*

It had been often overcast and very humid, up to about 80°F through the night of the 24th, but a cool front from the north had come in, dropping last night's lows to the upper 40s. I drove onto the refuge and saw a reed basking on a log in the roadside ditch. I hunted the same tract as on 12 Sept.

I started at 1100; clear, breezy, 64°F. During the next half hour I saw a juv bronze frog under a log, and an adult leopard frog and green treefrog under another. The slough that bisects the tract was very low, rarely over a foot deep. Along it I found three more small bronze frogs under logs at the margin of the damp zone.

I walked onto the flat woods at 1212 (67°F) and saw under logs 2 juv bronze frogs and 2 juv banded water snakes. One of the snakes had the tip of its snout sticking out from under the log in a sunned spot. I also found a juv Fowler's toad out on the ground back towards the slough.

I crossed the slough again around 1300 (69°F), and saw an adult bronze frog under a log near shore. I looked through the woods again until 1401 (70°F) but saw only an adult leopard frog under a log.

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method	Stage
bottomland hardwoods	3.02	65	clear	<i>Rana clamitans</i>	5	1.66	VES	juv
bottomland hardwoods	3.02	69	clear	<i>Rana clamitans</i>	1	0.33	VES	ad
bottomland hardwoods	3.02		clear	<i>Rana clamitans</i>	6	1.99	VES	combd
bottomland hardwoods	3.02	64	clear	<i>Hyla cinerea</i>	1	0.33	VES	ad
bottomland hardwoods	3.02	64	clear	<i>Rana utricularia</i>	1	0.33	VES	ad
bottomland hardwoods	3.02	70	clear	<i>Rana utricularia</i>	1	0.33	VES	ad
bottomland hardwoods	3.02	68	clear	<i>Rana utricularia</i>	1	0.33	VES	juv
bottomland hardwoods	3.02		clear	<i>Rana utricularia</i>	3	0.99	VES	combd
bottomland hardwoods	3.02	67	clear	<i>Nerodia fasciata</i>	2	0.66	VES	juv
bottomland hardwoods	3.02	67	clear	<i>Bufo fowleri</i>	1	0.33	VES	juv

SITE LA: W. Feliciana Par: Cat Island Swamp N.W.R., SE portion

DATE 26 Oct. 2001

PERSONNEL J. Boundy

CLIMATE humid, to $\sim 80^\circ$, often overcast, but no rainfall thru night of 24th
Since -- clear, breezy, highs to 70° ; lows to upper 40s.

N / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
* 1100		bottomland hardwoods (all)	clear, breezy, 64°
1129	<i>Rana clamitans</i> (1)	under log	juv.
	<i>Hyla cinerea</i> (1)	"	adult
	<i>Rana utricularia</i> (1)	"	"
1129			
1129			64° 65°
	<i>Rana clamitans</i> (3)	under log	juv.
1212			67°
	<i>Rana clamitans</i> (1)	under log	juv.
	<i>Nerodia fasciata</i> (1)	"	"
1242			
1309	<i>Bufo fowleri</i> (1)	out on ground	juv.
	<i>Rana utricularia</i> (1)	under log	juv.
	<i>Nerodia fasciata</i> (1)	"	juv.
1309			
	<i>Rana clamitans</i> (1)	under log nr. slough	adult
1328			
	<i>Rana utricularia</i> (1)	under log	adult
1401	END		70° clear, breezy

2001: 4 December: LA: West Feliciana Par: Cat Island National Wildlife Refuge

1 <i>Bufo fowleri</i>	5 <i>Rana clamitans clamitans</i>
2 <i>Hyla cinerea</i>	9 <i>Rana utricularia utricularia</i>
1 <i>Hyla squirella</i>	2 <i>Trachemys scripta elegans</i>
<i>Pseudacris crucifer crucifer</i> heard	1 <i>Anolis carolinensis carolinensis</i>
1 <i>Pseudacris feriarum</i>	

There had been some moderate rains on 29 Nov, after which it turned cool, clear, breezy, and low humidity (lows in upper 30s, highs 60s). The past several days have had increasing temperatures, but relatively low humidity. Last night the low was in the upper 50s, and today the high was in the mid 70s, clear with low humidity.

As I drove toward the site (0938) I found a big female reardear crossing the dirt road between two open grass sloughs about a half mile E of the survey site (Blackfork Bayou). I started the survey at 0945 (air T 60°) at the trailhead, and cut straight S through the forest. It was breezy, with low humidity. By 1012 it was 64°F. Until 1045 all I found was a juv leopard frog under a log. By 1046 it was 69°F. I found 2 adult leopards, and adult bronze frog, and adult green treefrog under logs.

At 1111 (air T 70°F) I found 2 more adult leopards under logs, and an adult female chorus frog under a log. In this region there were a number of low spots with water. At 1131 it was still 70°F. I heard a spring peeper call, found 2 adult bronze frogs under logs at a pool, found a juv bronze frog under a log, and 3 adult leopards under logs. At 1210 (still 70°F) I cut west toward the slough, where I saw an adult reardear at the surface. I worked my way back toward the trailhead near the slough, and found under logs an adult green treefrog, an adult bronze frog, a juv squirrel treefrog, 2 adult leopard frogs, one of which was gravid, and a juv Fowler's toad. I also saw a juv anole jump onto a small tree trunk. I ended back at the trailhead at 1251 (air T 74°F).

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method	Stage
bottomland hardwoods	3.1	62	clear	<i>Rana utricularia</i>	1	0.32	VES	juv
bottomland hardwoods	3.1	71	clear	<i>Rana utricularia</i>	8	2.58	VES	ad
bottomland hardwoods	3.1	71	clear	<i>Rana clamitans</i>	5	1.61	VES	ad
bottomland hardwoods	3.1	71	clear	<i>Hyla cinerea</i>	2	0.65	VES	ad
bottomland hardwoods	3.1	71	clear	<i>Pseudacris feriarum</i>	1	0.32	VES	ad
bottomland hardwoods	3.1	71	clear	<i>Pseudacris crucifer</i>	h	x		call ad
bottomland hardwoods	3.1	71	clear	<i>Trachemys scripta</i>	1	0.32	VES	ad
bottomland hardwoods	3.1	71	clear	<i>Hyla squirella</i>	1	0.32	VES	juv
bottomland hardwoods	3.1	71	clear	<i>Bufo fowleri</i>	1	0.32	VES	juv
bottomland hardwoods	3.1	71	clear	<i>Anolis carolinensis</i>	1	0.32	VES	juv
bottomland hardwoods	3.1	71	clear	<i>Rana utricularia</i>	9	2.9	VES	combd

SITE LA: W. Feliciana Par: Cat Island NWR

DATE 4 Dec. 2001

PERSONNEL J. Boundy

CLIMATE : past: some rain on 11/29; clear, cool/cold on 11/30 → gradually warming

today: clear, breezy, mod. humidity; low in upper 50s; highs to mid 70s.

N / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
★ 0945		bottomland hardwoods	clear, 60°.
1012	<i>Rana clamitans</i> <i>utricularia</i> (1)	under log	clear, 64°. juv.
1046	<i>Rana utricularia</i> (2) <i>Rana clamitans</i> (1) <i>Hyla cinerea</i> (1)	under logs " "	clear, 69°. adults " "
1111	<i>Rana utricularia</i> (2) <i>Pseudacris feriarum</i> (1)	under logs "	clear, 70°. adults adult ♀
1131	<i>Pseudacris crucifer</i> (heard) <i>Rana clamitans</i> (2) " (1) <i>Rana utricularia</i> (3)	calling under logs at pool in pool under logs	clear, 70°. one heard adults juv. adults
1210	<i>Trachemys scripta</i> (1) <i>Hyla cinerea</i> (1) <i>Rana clamitans</i> (1) <i>Hyla squirella</i> (1) <i>Rana utricularia</i> (1) " <i>Bufo fowleri</i> (1) <i>Anolis carolinensis</i> (1)	in slough under log " " " " " on tree	clear, 70°. adult " adult juv. adult ♀, gravid adult juv. "
★ 1251	END		clear, 74°.

2002: 17 January: LA: West Feliciana Par: Cat Island National Wildlife Refuge

1 *Hyla cinerea*

5 *Trachemys scripta elegans*

Pseudacris feriarum (heard)

1 *Nerodia fasciata confluens*

1 *Rana utricularia utricularia*

Virginia Rettig told me she had just opened the gate last night as the water level had dropped. She said that the water had been up since mid-December at levels reaching 8 feet in the forest, and I could see the water mark on the trees on my survey site at about 4-6 feet. A light, cold rain had fallen on the 12th, and temperatures had tended to be cool to cold since, with lows in the 30s and highs near 60°F. Yesterday morning there was frost, but last night's low was 43°F. The wind had begun to shift from the south, and it was overcast and slightly humid.

I started at 1020 (air T 61°F), and headed SE through the stand of hardwoods. At 1101 it was 63°, at 1122 it was 66°, and at 1130 there was partial breaking of the cloud cover. The ground was covered with wet leaves, acorns, pecans and twigs. Most of the logs had clearly been raised, then lowered during the high water, but some had remained intact as there was bare ground and crawfish burrows beneath. The water was receded to the back of the stand, leaving small pools in the low spots, and Black Fork slough was within its embankments.

At 1146 it was partly cloudy and 66°F. I saw nothing until nearly noon, when I found an adult leopard frog under a log just above the slough. The ground here was slightly higher, as the water mark was around 2.5-3 ft on the trees. At 1215 it was 68°F and I found a juv banded water snake, sluggish, coiled under a log that hadn't moved on the higher ground. The T under the log was 59°F.

By 1249 it was still partly cloudy and 71°F. Shortly thereafter I found an adult green treefrog under bark on a snag 1.5 feet above the water mark. The cloud cover had begun to increase by the time I finished at 1321 (air T 71°F).

I drove out on the dirt road, and in the slough I saw five adult reedears on a log. In the shallower tip of the slough near the entrance gate I heard 4 chorus frogs calling.

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method	Stage
bottomland hardwoods	3.01	63	overcast	x	x	x	VES	x
bottomland hardwoods	3.01	68	part cloud	<i>Hyla cinerea</i>	1	0.33	VES	ad
bottomland hardwoods	3.01	68	part cloud	<i>Rana utricularia</i>	1	0.33	VES	ad
bottomland hardwoods	3.01	68	part cloud	<i>Nerodia fasciata</i>	1	0.33	VES	juv

SITE LA: W. Feliciana Par. Cat Island NWR, E. end

DATE 17 Jan. 2002

PERSONNEL J. Boudry

CLIMATE past few days generally cold/cool (lows in 30s, highs ~60°); frost yesterday morning. today: nighttime low ~43°; today's high barely over 70°; but with wind from south overcast all morning, breaking slightly ~1130.

[illegible]

2002: 19 February: LA: West Feliciana Par: Cat Island National Wildlife Refuge

1 <i>Hyla chrysoscelis</i>	3 <i>Rana utricularia utricularia</i>
5 <i>Hyla cinerea</i>	4 <i>Gastrophryne carolinensis</i>
11 <i>Hyla squirella</i>	11 <i>Anolis carolinensis carolinensis</i>
1 <i>Pseudacris crucifer crucifer</i>	1 <i>Scincella lateralis</i>
1 <i>Pseudacris feriarum</i> (and heard)	1 <i>Eumeces fasciatus</i>
3 <i>Rana clamitans clamitans</i>	1 <i>Agkistrodon piscivorus leucostoma</i>

The refuge gate was closed, so I surveyed George Woodside's property SW of the refuge road about 200 yards from the gate. The past few days had been warm (lows upper 40s, low 50s, highs low to mid 70s). Today was overcast, with a wind from the south, moderate humidity, and expected high of 75°F. This property, near the road, is somewhat higher than the rest of the swamp, and appears not to have flooded. There was a tendency for more river birch in here, and fewer bitter pecans. Within about 100 yards of the road there was evidence of minor flooding, and there was a lot of water in low spots, with a small, shallow slough running through. This latter area had a lot of flotsom (leaves, twigs) all over, whereas the "upper" portion had a dense carpet of dry leaves.

I started at the S corner of the woodlot at 1022 (air T 69°F). As I went off the road I saw a scincella in the leaves and branches heaped there. There are a lot of logs on the ground, and no ground cover vegetation nor midstory. Under logs I saw 2 adult anoles, an adult green treefrog, a juv narrowmouth toad, 5 juv and 2 adult squirrel treefrogs. Inside a small log was a juv fiveline skink, somewhat lethargic, but still managed to escape. At 1053 it was still 69°F. Under more logs I found another juv narrowmouth toad, a subadult green treefrog, a juv squirrel treefrog, and an adult anole. In a snag I found two more adult anoles. At 1109, weather unchanged, I found 2 adult green treefrogs, a leopard frog, and two bronze frogs, under logs.

I was into the lower zone by 1120, and found an adult male spring peeper jumping in the leaves. At 1131 it was 70°F. I found an adult and juv anole in a snag, and saw an adult basking on a tire. Under a log in a wet depression I got an adult male chorus frog and a leopard frog. Under other logs I found an adult green treefrog, a bronze frog (near the slough), and a juv cottonmouth. At 1202 it was still 70°F. I found a dead leopard frog, unmarked and about a day old, lying next to a log near the slough.

At 1228 I got back toward the higher ground, and heard a chorus frog give a brief call. At 1250 the temperature had risen to 75°F. Under logs I found two juv narrowmouth toads, a juv gray treefrog, and an adult anole. I heard a couple of chorus frogs call briefly, and saw two adult anoles on logs. I found a juv squirrel treefrog inside a damp log, and found an adult inside a pulpy snag.

I got out of the woods at 1324 (air T 75°F). Back at the truck I heard a couple of chorus frogs call from the slough along the road. It was notable that squirrel treefrogs were limited to the drier part of the forest.

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	3.03	70	overcast Anolis carolinensis	5	1.65	VES ad
bottomland hardwoods	3.03	70	overcast Anolis carolinensis	3	0.99	VES juv
bottomland hardwoods	3.03	70	overcast Anolis carolinensis	8	2.64	VES combd
bottomland hardwoods	3.03	70	overcast Hyla cinerea	5	1.65	VES ad
bottomland hardwoods	3.03	70	overcast Gastrophryne carolinensis	2	0.66	VES juv
bottomland hardwoods	3.03	70	overcast Eumeces fasciatus	1	0.33	VES juv
bottomland hardwoods	3.03	70	overcast Hyla squirella	7	2.31	VES juv
bottomland hardwoods	3.03	70	overcast Hyla squirella	2	0.66	VES ad
bottomland hardwoods	3.03	70	overcast Hyla squirella	9	2.97	VES combd
bottomland hardwoods	3.03	70	overcast Rana utricularia	2	0.66	VES ad
bottomland hardwoods	3.03	70	overcast Rana clamitans	3	0.99	VES ad
bottomland hardwoods	3.03	70	overcast Pseudacris feriarum	1	0.33	VES ad
bottomland hardwoods	3.03	70	overcast Pseudacris crucifer	1	0.33	VES ad
bottomland hardwoods	3.03	70	overcast Agkistrodon piscivorus	1	0.33	VES juv
bottomland hardwoods	3.03	75	overcast Pseudacris feriarum	h	level 1	call ad
bottomland hardwoods	3.03	75	overcast Gastrophryne carolinensis	2	0.66	VES juv
bottomland hardwoods	3.03	x	overcast Gastrophryne carolinensis	4	1.32	VES combd
bottomland hardwoods	3.03	75	overcast Hyla squirella	2	0.66	VES juv
bottomland hardwoods	3.03	x	overcast Hyla squirella	11	3.63	VES combd
bottomland hardwoods	3.03	75	overcast Hyla chrysoscelis	1	0.33	VES juv
bottomland hardwoods	3.03	75	overcast Anolis carolinensis	3	0.99	VES ad
bottomland hardwoods	3.03	x	overcast Anolis carolinensis	11	3.63	VES combd

SITE LA: W. Feliciana Par; Cat Island Swamp; George Woodford Property DATE 19 Feb. 2002

PERSONNEL J. Boundy

CLIMATE: past few days: fairly warm - lows upper 40s/low 50s, highs ~70-75.

today: overcast, windy (from south); high supposed to reach upper 70s.; moderate humidity.

N / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
* 1022	START	bottom hardwoods	overcast, 69°.
	<i>Anolis carolinensis</i> (2)	under logs	adults
	<i>Hyla cinerea</i> (1)	"	"
	<i>Gastrophryne carolinensis</i> (1)	"	juv.
	<i>Eumeces fasciatus</i> (1)	inside log	"
	<i>Hyla squirella</i> (5)	under logs	"
	" (2)	"	adults
	" (1)	out in leaves on ground	juv.
1053			overcast, 69°.
	<i>Gastrophryne carolinensis</i> (1)	under log	juv.
	<i>Hyla cinerea</i> (1)	"	subadult
	<i>Hyla squirella</i> (1)	"	juv.
	<i>Anolis carolinensis</i> (2)	in snag	"
	" (1)	under log	adult
1109			
	<i>Hyla cinerea</i> (2)	under log	adult
	<i>Rana utricularia</i> (1)	"	"
	<i>Rana clamitans</i> (2)	"	"
1120			
	<i>Pseudacris crucifer</i> (1)	out on ground	adult ♂
1131			overcast, 70°.
	<i>Anolis carolinensis</i> (2)	in snag	adult + juv.
	" (1)	on tree	adult
	<i>Hyla cinerea</i> (1)	under log	"
	<i>Pseudacris feriarum</i> (1)	"	adult ♂
	<i>Rana utricularia</i> (1)	"	adult
	<i>Rana clamitans</i> (1)	"	"
	<i>Ambystoma piscivorus</i> (1)	"	juv.
1202			overcast, 70°.
	<i>Rana utricularia</i> (1)	dead near slough	adult

DATE 19 Feb. 2002

PERSONNEL

CLIMATE

N / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
1228	<i>Pseudacris feriarum</i> (heard)		1 call (brief)
1250	<i>Gastrophryne carolinensis</i> (2) <i>Hyla squirella</i> (1) " (1) <i>Hyla chrysoscelis</i> (1) <i>Pseudacris feriarum</i> (heard) <i>Anolis carolinensis</i> (2) " (1)	under logs in log in stump under log on logs under log	overcast, 75° juv. " adult juv. 2 calling adults "
1324	END		overcast, 75°

2002: 18 March: LA: West Feliciana Par: Cat Island National Wildlife Refuge

1 <i>Hyla chrysoscelis</i> (+heard)	1 <i>Terrapene carolina major</i>
1 <i>Hyla cinerea</i>	1 <i>Trachemys scripta elegans</i>
5 <i>Hyla squirella</i>	6 <i>Anolis carolinensis carolinensis</i>
1 <i>Rana clamitans clamitans</i>	1 <i>Eumeces fasciatus</i>
26 <i>Rana utricularia utricularia</i>	1 <i>Eumeces laticeps</i>
5 <i>Gastrophryne carolinensis</i>	1 <i>Agkistrodon piscivorus leucostoma</i>

The water level was down, but the Nature Conservancy gate was locked, so I searched the Woodside property off the SE boundary of the refuge. As I drove on the dirt road back from the TNC gate I saw a reed on a log in the slough and an adult cottonmouth lying in the sharp hook in the road between low, wet spots. The last rain in the area was the night of the 12th-13th, with a short cloudburst on the morning of the 16th. The past few days have been very humid, often overcast, with lows in the 60s and highs in the 70s. Last night the low was around 70°F. There was about 60% cloudcover, very humid, with a south breeze.

I started into the Woodside property from about ½ mi from the Cat Island gate at 1025 (air T 80°F). I saw an adult anole on a tree trunk, an adult fiveline skink in a snag, and a leopard frog at a small pool on the forest floor. From 1103 (air T 80°F) -1138 I saw 2 leopard frogs under a log at a short, shallow slough, 2 anoles on tree trunks, and a big box turtle sitting out.

From 1139 (81°F) -1203 I found a subadult broadhead skink, still fully striped, in a snag, a juv narrowmouth toad under a log, 2 adult leopard frogs under logs near water, an adult squirrel tree frog (almost white with pale brown spots) on the side of a snag, and heard a gray treefrog call briefly. From 1204 (air T 82°F) -1234 I saw 5 adult leopard frogs jump into a small, isolated slough, found one under a log nearby, and found a juvenile inside a wet, pulpy log. I found another juv narrowmouth toad under a log, and heard another gray tree frog call.

From 1235 (air T 85°F) -1251 I heard another gray tree frog, found an adult narrowmouth toad under a log, a juv gray tree frog in a snag, 2 juv squirrel tree frogs on the ground in leaves, and an adult anole on a stump. From 1252-1306 I saw 12 adult leopard frogs jump into a slough section about 10 ft across and perhaps 1.5 ft deep. Starting at 1307 I saw under logs 2 adult narrowmouth toads and a green tree frog. I saw an anole on a tree trunk and another on a log. I found 2 juv squirrel tree frogs in a snag, and heard individual gray tree frogs call twice. At a low, shallow marshy spot I saw one bronze frog and two leopard frogs. I ended at 1329 (air T 87°F).

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	3.07	81	part cloud Anolis carolinensis	3	0.98	VES ad
bottomland hardwoods	3.07	81	part cloud Eumeces fasciatus	1	0.33	VES ad
bottomland hardwoods	3.07	81	part cloud Rana utricularia	11	3.58	VES ad
bottomland hardwoods	3.07	81	part cloud Rana utricularia	1	0.33	VES juv
bottomland hardwoods	3.07	81	part cloud Terrapene carolina	1	0.33	VES ad
bottomland hardwoods	3.07	81	part cloud Eumeces laticeps	1	0.33	VES ad
bottomland hardwoods	3.07	81	part cloud Gastrophryne carolinensis	2	0.65	VES juv
bottomland hardwoods	3.07	81	part cloud Hyla chrysoscelis	h	level 1	call ad
bottomland hardwoods	3.07	81	part cloud Hyla squirella	1	0.33	VES ad
bottomland hardwoods	3.07	85	part cloud Gastrophryne carolinensis	3	0.98	VES ad
bottomland hardwoods	3.07	x	part cloud Gastrophryne carolinensis	5	1.63	VES combd
bottomland hardwoods	3.07	85	part cloud Hyla chrysoscelis	1	0.33	VES juv
bottomland hardwoods	3.07	85	part cloud Hyla chrysoscelis	x	level 1	call ad
bottomland hardwoods	3.07	85	part cloud Hyla squirella	4	1.3	VES juv
bottomland hardwoods	3.07	x	part cloud Hyla squirella	5	1.63	VES combd
bottomland hardwoods	3.07	85	part cloud Anolis carolinensis	3	0.98	VES ad
bottomland hardwoods	3.07	x	part cloud Anolis carolinensis	6	1.95	VES combd
bottomland hardwoods	3.07	85	part cloud Rana utricularia	14	4.56	VES ad
bottomland hardwoods	3.07	x	part cloud Rana utricularia	26	8.47	VES combd
bottomland hardwoods	3.07	85	part cloud Rana clamitans	1	0.33	VES ad
bottomland hardwoods	3.07	85	part cloud Hyla cinerea	1	0.33	VES ad

SITE LA: W. Feliciana Par: Cat Island Swamp, Woodford^{side} portion

p. 10/2
DATE 18 March 2002

PERSONNEL J. Boundy

CLIMATE No rain since 3/12, except for quick cloudburst morning of 3/16. Generally very humid, usually overcast, lows 60s highs → 80 most days.

Today: same, last night low in low 70s., today's high in upper 80s.; usually ~60% cloudcover

N / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
★ 1025	START	bottom hardwoods	partly clear, 80°.
	Anolis carolinensis (1)	on tree	adult
	Eumeces fasciatus (1)	in snag	"
	Rana utricularia (1)	at pool	"
1103			80°
	Rana utricularia (2)	under log nr. water	adults
	Anolis carolinensis (2)	on trees	"
	Terrapene carolina (1)	out on ground	"
1139			81°
	Eumeces laticeps (1)	in snag	subadult
	Gastrophryne carolinensis (1)	under log	juv.
	Hyla chrysoscelis (call)		1 heard calling
	Rana utricularia (2)	under logs nr. water	adults
	Hyla squirella (1)	on snag	"
1204			82°
	Rana utricularia (1)	under log	adult
	" (5)	at pool	"
	" (1)	in log	juv.
	Gastrophryne carolinensis (1)	under log	"
	Hyla chrysoscelis (call)		heard 1
1235			85°
	Gastrophryne carolinensis (1)	under log	adult
	Hyla chrysoscelis (1)	in snag	juv.
	(call)		heard 1-2
	Hyla squirella (2)	out on ground	juv.
	Anolis carolinensis (1)	on stump	adult
1252			
	Rana utricularia (12)	at long pool	adults

2002: 10 May: LA: West Feliciana Par: Cat Island National Wildlife Refuge

<i>Hyla chrysoscelis</i> (heard)	12 <i>Rana utricularia utricularia</i>
<i>Hyla cinerea</i> (heard)	2 <i>Anolis carolinensis carolinensis</i>
<i>Hyla squirella</i> (heard)	<i>Terrapene carolina major</i> (shell)
2 <i>Pseudacris feriarum</i>	3 <i>Nerodia erythrogaster flavigaster</i>
2 <i>Pseudacris crucifer crucifer</i>	2 <i>Nerodia fasciata confluens</i>
3 <i>Rana clamitans clamitans</i>	1 <i>Elaphe spiloides</i>

It has remained dry, with no rain for a couple of weeks, although humidity is moderate to high, and cumulus clouds blow over from the south. Nighttime lows are in the low 70s, with highs nearly 90°F. Today was the same, with small clouds drifting over on occasion. The river was up and rising, so the access road was closed. I parked at the gate, where I heard 2 green and 2 squirrel tree frogs call from the borrow ditch along the road. On a wooden sign I saw a pair of anoles, the male crested and green.

I started into the SE corner of George Woodside's forest portion at 0837 (air T 76°F). There were very few puddles, just some low damp spots. Near a puddle I found 2 metamorph chorus frogs. I heard 3 squirrel and 2 green treefrogs call. At 0908 it was 79°F. I heard one each of green and squirrel tree frogs, and found a shell of an adult box turtle. I reached the waterline as it encroached into the forest, and walked around in the shallows. The water was dark, but I saw a yellowbelly water snake pass through a sunned spot in about 14" of water. Along the waterline I saw 2 adult leopard frogs and a bronze frog. Under a log was another adult leopard frog.

At 0943 it was still 79°F. Continuing along the water line I saw 3 metamorph leopard frogs. I saw another metamorph leopard and a juv bronze frog away from water. I heard perhaps 5-8 green tree frogs calling from low vegetation at the edge of a flooded food plot. In the forest I heard a gray tree frog call, found an adult bronze frog under a log, and found a metamorph spring peeper on the ground. At 1006 (air T 80°F) I heard a green and gray tree frog call, and found a metamorph leopard frog under a log. Along a flooded food plot I caught a big female yellowbelly water snake, and I caught a male swimming off shore. The latter went under but I was able to corner it in a tiny inlet.

At 1031 (air T 82°F) I saw another metamorph peeper on the ground, an adult leopard frog under a log, and a metamorph leopard at a big puddle. I found an adult banded water snake lying out on the forest floor, and saw a very large one go in off a shrub overhanging a deep puddle. At 1055 I headed toward the sharp turn in the access road at the NE part of the property, which is slightly higher land. I saw 2 metamorph leopard frogs in a pool, heard a squirrel tree frog, and saw a rat snake about 32" long lying out. I walked over it and it headed towards a stump and down a hole in the base. At 1118 (clear, 82°) I continued paralleling the entrance road inside the forest in dry terrain. I heard 3 squirrel and 1 gray tree frog call. I came out of the woods at 1134.

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	2.95	79	clear Hyla squirella	h	level 1	call ad
bottomland hardwoods	2.95	79	clear Hyla cinerea	h	level 2	call ad
bottomland hardwoods	2.95	79	clear Hyla chrysoscelis	h	level 1	call ad
bottomland hardwoods	2.95	79	clear Pseudacris feriarum	2	0.68	VES nmet
bottomland hardwoods	2.95	79	clear Pseudacris crucifer	2	0.68	VES nmet
bottomland hardwoods	2.95	79	clear Rana utricularia	4	1.36	VES ad
bottomland hardwoods	2.95	79	clear Rana utricularia	8	2.71	VES nmet
bottomland hardwoods	2.95	79	clear Rana utricularia	12	4.07	VES combd
bottomland hardwoods	2.95	79	clear Rana clamitans	2	0.68	VES ad
bottomland hardwoods	2.95	79	clear Nerodia erythrogaster	3	1.02	VES ad
bottomland hardwoods	2.95	79	clear Nerodia fasciata	2	0.68	VES ad
bottomland hardwoods	2.95	79	clear Elaphe spiloides	1	0.34	VES ad
bottomland hardwoods	2.95	79	clear Rana clamitans	1	0.34	VES juv
bottomland hardwoods	2.95	79	clear Rana clamitans	3	1.02	VES combd

SITE LA: W. Peliciana Par: Cat Island N.W.R., G. Woodside property DATE 10 May 2002

PERSONNEL J. Boundy

CLIMATE no rain for 2 weeks or more; nighttime lows in low 70s, highs near 90°; humid today; same; light breeze from south; humid; some cumulus drifting over.

N / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
* 0837	START	bottom hardwoods	clear, 76°.
	<i>Hyla squicella</i> (heard)		3 calls
	<i>Hyla cinerea</i> (")		2 calls
	<i>Pseudacris feriarum</i> (2)	on ground nr. puddle	metamorphs.
0908			clear, 79°.
	<i>Hyla squicella</i> (heard)		1 call
	<i>Hyla cinerea</i> "		"
	<i>Rana utricularia</i> (1)	under log	adult
	" (2)	out nr. shoreline	"
	<i>Rana clamitans</i> (1)	"	"
	<i>Nerodia erythrogaster</i> (1)	"	" ♀
0943			79°
	<i>Rana utricularia</i> (3)	at waterline	metamorphs
	" (1)	out on ground	"
	<i>Hyla cinerea</i> (heard)		numerous calling
	<i>Hyla chrysocelis</i> "		1 call
	<i>Rana clamitans</i> (1)	out on ground	juv.
	" (1)	under log	adult
	<i>Pseudacris crucifer</i> (1)	out on ground	metamorph
1006			80°
	<i>Hyla cinerea</i> (heard)		1 call
	<i>Hyla chrysocelis</i> "		"
	<i>Nerodia erythrogaster</i> (2)	swimming in water	♂, ♀
	<i>Rana utricularia</i> (1)	under log	metamorph
1031			82°
	<i>Pseudacris crucifer</i> (1)	out on ground	metamorph
	<i>Rana utricularia</i> (1)	under log	adult
	<i>Nerodia fasciata</i> (1)	in shrub over water	"
	" (1)	out on ground	"
	<i>Rana utricularia</i> (1)	at puddle	metamorph

[illegible]

2002: 9 July: LA: West Feliciana Par: Cat Island National Wildlife Refuge*2 Bufo fowleri**Hyla chrysoscelis* (heard)*Hyla cinerea* (heard)*1 Hyla squirella* (+ heard)*2 Rana clamitans clamitans**10 Rana utricularia utricularia**1 Trachemys scripta elegans**1 Anolis carolinensis carolinensis*

Lately the highs have been near 90°F, and the lows in the 70s. It has been very humid, with afternoon thundershowers most days. Today was the same, with few clouds by late morning. The river had been dropping, but the NWR gate was closed, so I walked into the Woodside property. On the way, in the channel along the road, I heard a few green tree frogs and 1 squirrel tree frog call.

I started at the NE corner at 0852 (air T 81°F), and headed SW. There were only a few puddles or tiny pools on the site. I saw 2 juvenile leopard frogs in low ground cover in low spots, and one metamorph Fowler's toad on the ground. I heard 3 squirrel tree frogs call, and up to 2-3 gray and green tree frogs calling simultaneously, but sporadically. From 0921 (air T 81°F) to 0953 I found an adult squirrel tree frog under bark on a snag, and heard up to 2-3 squirrel, gray and green tree frogs call at times. From 0954 (air T 82°F) to 1034 I saw two metamorph bronze frogs at a small puddle, an anole on a log, and heard a green and squirrel tree frog call. I also heard up to 2-3 gray tree frogs calling.

From 1035 (air T 82°F) to 1102 I heard a squirrel tree frog call, 2-3 gray tree frogs calling, an adult leopard frog under a log, and a redear turtle on a log in the slough along the entrance road. At 1103 (air T 83°F) I saw a leopard frog on a log, and saw 6 juv leopards in low areas near a pool. I saw a metamorph Fowler's toad on the ground, and heard 1 call each of gray, green and squirrel tree frogs. I ended back at the NE corner at 1155 (air T 86°F). On the walk back to the truck I saw a redear go off a log in the slough, and heard a squirrel tree frog call.

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method Stage
bottomland hardwoods	2.18	82	clear	<i>Rana utricularia</i>	2	0.92	VES juv
bottomland hardwoods	2.18	82	clear	<i>Rana utricularia</i>	1	0.46	VES ad
bottomland hardwoods	2.18	82	clear	<i>Rana utricularia</i>	3	1.38	VES combd
bottomland hardwoods	2.18	82	clear	<i>Bufo fowleri</i>	1	0.46	VES nmet
bottomland hardwoods	2.18	82	clear	<i>Hyla chrysoscelis</i>	h	level 1.5	call ad
bottomland hardwoods	2.18	82	clear	<i>Hyla cinerea</i>	h	level 1.5	call ad
bottomland hardwoods	2.18	82	clear	<i>Hyla squirella</i>	h	level 1.5	call ad
bottomland hardwoods	2.18	82	clear	<i>Hyla squirella</i>	1	0.46	VES ad
bottomland hardwoods	2.18	82	clear	<i>Rana clamitans</i>	2	0.92	VES nmet
bottomland hardwoods	2.18	82	clear	<i>Anolis carolinensis</i>	1	0.46	VES ad
bottomland hardwoods	2.18	82	clear	<i>Trachemys scripta</i>	1	0.46	VES ad
bottomland hardwoods	0.87	85	part cloud	<i>Rana utricularia</i>	1	1.15	VES ad
bottomland hardwoods	0.87	85	part cloud	<i>Rana utricularia</i>	6	6.9	VES juv
bottomland hardwoods	0.87	85	part cloud	<i>Rana utricularia</i>	7	8.05	VES combd
bottomland hardwoods	3.05	x	x	<i>Rana utricularia</i>	10	11.49	VES combd
bottomland hardwoods	0.87	85	part cloud	<i>Bufo fowleri</i>	1	1.15	VES nmet
bottomland hardwoods	3.05	x	x	<i>Bufo fowleri</i>	2	2.3	VES combd
bottomland hardwoods	0.87	85	part cloud	<i>Hyla chrysoscelis</i>	h	level 1	call ad
bottomland hardwoods	0.87	85	part cloud	<i>Hyla cinerea</i>	h	level 1	call ad
bottomland hardwoods	0.87	85	part cloud	<i>Hyla squirella</i>	h	level 1	call ad

SITE LA: Cat Island NWR - G. Woodside property

DATE 9 July 2002

PERSONNEL J. Boudry

CLIMATE recent: very warm & humid, lows 70s, highs ~90°. Afternoon showers most days.
today: same

N / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
* 0852	START	bottom hardwoods	clear, 81°.
	<i>Rana utricularia</i> (2)	out on ground	juv.
	<i>Bufo boreas</i> (1)	"	metamorph
	<i>Hyla squirella</i> (call)		3 calls
	<i>Hyla cinerea</i> "		2-3 calls together
	<i>Hyla chrysoscelis</i> "		"
0921			81°
	<i>Hyla squirella</i> (1)	under bark on snag	adult
	" (calls)		2-3 calling together
	<i>Hyla cinerea</i> "		"
	<i>Hyla chrysoscelis</i> "		"
0954			82° mostly clear.
	<i>Rana clamitans</i> (2)	at puddles	metamorphs
	<i>Anolis carolinensis</i> (1)	on log	adult
	<i>Hyla chrysoscelis</i> (call)		2-3 calling together
	<i>Hyla cinerea</i> "		1 call
	<i>Hyla squirella</i> "		"
1035			82°
	<i>Hyla squirella</i> (call)		1 call
	<i>Hyla chrysoscelis</i> "		2-3 calling together
	<i>Rana utricularia</i> (1)	under log	adult
	<i>Trachemys scripta</i> (1)	on log in slough	"
1103			83° mostly clear
	<i>Rana utricularia</i> (1)	on log	adult
	" (6)	at puddles	juv.
	<i>Bufo boreas</i> (1)	out on ground	metamorph
	<i>Hyla chrysoscelis</i> (call)		1 call
	<i>Hyla cinerea</i> "		"
	<i>Hyla squirella</i> "		"
* 1155	END		86°.

2002: 16 July: LA: West Feliciana Par: Cat Island National Wildlife Refuge

Hyla cinerea (heard)

1 *Rana clamitans clamitans*

Hyla chrysoscelis (heard)

7 *Trachemys scripta elegans*

Hyla squirella (heard)

The NWR gate was open, so I went to the section along Blackfork Bayou I had surveyed last fall. Lately the highs have been near 90°F, and the lows in the 70s. It has been very humid, with afternoon thundershowers most days. Today was the same, with few clouds by late morning. The Bayou was within its channel, and there was little other than some puddles over the rest of the area.

I started at the trailhead at 0843 (air T 77°F). I heard a green and a squirrel tree frog call. From 0908 I heard a 5 gray tree frogs call briefly at different times, and found a metamorph bronze frog under a log near the Bayou. From 0933 I counted 6 different gray tree frogs call. I ended back at the trailhead at 1009 (air T 83°F).

As I was driving out on the entrance road I saw 7 redears on logs in the slough.

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	1.43	80	clear Hyla chrysoscelis	h	level 1	call ad
bottomland hardwoods	1.43	80	clear Hyla cinerea	h	level 1	call ad
bottomland hardwoods	1.43	80	clear Hyla squirella	h	level 1	call ad
bottomland hardwoods	1.43	80	clear Rana clamitans	1	0.7	VES juv

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method	Stage	Mo	Day	Year
bottomland hardwoods	1.67	20.9	overcast	Agkistrodon piscivorus	1	0.6	VES	juvenile		2	19 2002
bottomland hardwoods	0.68	22.2	clear	Anolis carolinensis	1	1.47	VES	juvenile	12	4	2001
bottomland hardwoods	1.67	20.9	overcast	Anolis carolinensis	5	3	VES	adult	2	19	2002
bottomland hardwoods	1.67	20.9	overcast	Anolis carolinensis	3	1.8	VES	juvenile	2	19	2002
bottomland hardwoods	1.67	20.9	overcast	Anolis carolinensis	8	4.8	VES	combined	2	19	2002
bottomland hardwoods	0.93	22.8	overcast	Anolis carolinensis	3	3.23	VES	adult	2	19	2002
bottomland hardwoods	1.65	27.2	part-cloud	Anolis carolinensis	3	1.82	VES	adult	3	18	2002
bottomland hardwoods	0.9	30	part-cloud	Anolis carolinensis	3	3.33	VES	adult	3	18	2002
bottomland hardwoods	2.18	27.8	clear	Anolis carolinensis	1	0.46	VES	adult	7	9	2002
bottomland hardwoods	0.48	26.7	clear	Bufo fowleri	2	4.17	VES	juvenile	9	12	2001
bottomland hardwoods	1.07	27.2	overcast	Bufo fowleri	1	0.93	VES	metamorph	9	12	2001
bottomland hardwoods	1.07	27.2	overcast	Bufo fowleri	4	3.74	VES	juvenile	9	12	2001
bottomland hardwoods	1.55 x	x	x	Bufo fowleri	7	4.52	VES	combined	9	12	2001
bottomland hardwoods	1.82	20.3	clear	Bufo fowleri	1	0.55	VES	juvenile	10	26	2001
bottomland hardwoods	0.68	22.2	clear	Bufo fowleri	1	1.47	VES	juvenile	12	4	2001
bottomland hardwoods	2.18	27.8	clear	Bufo fowleri	1	0.46	VES	metamorph	7	9	2002
bottomland hardwoods	0.87	29.4	part-cloud	Bufo fowleri	1	1.15	VES	metamorph	7	9	2002
bottomland hardwoods	2.43	27	clear	Elaphe spiloides	1	0.41	VES	adult	5	10	2002
bottomland hardwoods	1.67	20.9	overcast	Eumeces fasciatus	1	0.6	VES	juvenile	2	19	2002
bottomland hardwoods	1.65	27.2	part-cloud	Eumeces fasciatus	1	0.61	VES	adult	3	18	2002
bottomland hardwoods	1.65	27.2	part-cloud	Eumeces laticeps	1	0.61	VES	adult	3	18	2002
bottomland hardwoods	1.07	27.2	overcast	Gastrophryne carolinensis	1	0.93	VES	adult	9	12	2001
bottomland hardwoods	1.67	20.9	overcast	Gastrophryne carolinensis	2	1.2	VES	juvenile	2	19	2002
bottomland hardwoods	0.93	22.8	overcast	Gastrophryne carolinensis	2	2.15	VES	juvenile	2	19	2002
bottomland hardwoods	1.65	27.2	part-cloud	Gastrophryne carolinensis	1	0.61	VES	juvenile	3	18	2002
bottomland hardwoods	0.52	28.6	part-cloud	Gastrophryne carolinensis	1	1.92	VES	juvenile	3	18	2002
bottomland hardwoods	0.9	30	part-cloud	Gastrophryne carolinensis	3	3.33	VES	adult	3	18	2002
bottomland hardwoods	0.83	25.8	clear	Hyla chrysoscelis	x	level 1	call	adult	7	16	2002
bottomland hardwoods	0.75	27.8	clear	Hyla chrysoscelis	x	level 1	call	adult	7	16	2002
bottomland hardwoods	0.93	22.8	overcast	Hyla chrysoscelis	1	1.08	VES	juvenile	2	19	2002
bottomland hardwoods	1.65	27.2	part-cloud	Hyla chrysoscelis	x	level 1	call	adult	3	18	2002
bottomland hardwoods	0.52	28.6	part-cloud	Hyla chrysoscelis	x	level 1	call	adult	3	18	2002
bottomland hardwoods	0.9	30	part-cloud	Hyla chrysoscelis	1	1.11	VES	juvenile	3	18	2002
bottomland hardwoods	0.9	30	part-cloud	Hyla chrysoscelis	x	level 1	call	adult	3	18	2002
bottomland hardwoods	2.43	27	clear	Hyla chrysoscelis	x	level 1	call	adult	5	10	2002
bottomland hardwoods	2.18	27.8	clear	Hyla chrysoscelis	x	level 1.5	call	adult	7	9	2002

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method	Stage	Mo	Day	Year
bottomland hardwoods	0.87	29.4	part-cloud	Hyla chrysoscelis	x	level 1	call	adult		7	9 2002
bottomland hardwoods	1.2	18.6	clear	Hyla cinerea	1	0.83	VES	adult		10	26 2001
bottomland hardwoods	1.23	20.9	clear	Hyla cinerea	1	0.81	VES	adult		12	4 2001
bottomland hardwoods	0.68	22.2	clear	Hyla cinerea	1	1.47	VES	adult		12	4 2001
bottomland hardwoods	3.1 x		clear	Hyla cinerea	2	0.65	VES	combined		12	4 2001
bottomland hardwoods	1.58	20.3	part-cloud	Hyla cinerea	1	0.63	VES	adult		1	17 2002
bottomland hardwoods	0.83	25.8	clear	Hyla cinerea	x	level 1	call	adult		7	16 2002
bottomland hardwoods	1.67	20.9	overcast	Hyla cinerea	5	3	VES	adult		2	19 2002
bottomland hardwoods	0.9	30	part-cloud	Hyla cinerea	1	1.11	VES	adult		3	18 2002
bottomland hardwoods	0.52	25.3	clear	Hyla cinerea	x	level 1	call	adult		5	10 2002
bottomland hardwoods	2.43	27	clear	Hyla cinerea	x	level 2	call	adult		5	10 2002
bottomland hardwoods	2.18	27.8	clear	Hyla cinerea	x	level 1.5	call	adult		7	9 2002
bottomland hardwoods	0.87	29.4	part-cloud	Hyla cinerea	x	level 1	call	adult		7	9 2002
bottomland hardwoods	0.68	22.2	clear	Hyla squirella	1	1.47	VES	juvenile		12	4 2001
bottomland hardwoods	0.83	25.8	clear	Hyla squirella	x	level 1	call	adult		7	16 2002
bottomland hardwoods	1.67	20.9	overcast	Hyla squirella	7	4.2	VES	juvenile		2	19 2002
bottomland hardwoods	1.67	20.9	overcast	Hyla squirella	2	1.2	VES	adult		2	19 2002
bottomland hardwoods	1.67	20.9	overcast	Hyla squirella	9	5.4	VES	combined		2	19 2002
bottomland hardwoods	0.93	22.8	overcast	Hyla squirella	1	1.08	VES	juvenile		2	19 2002
bottomland hardwoods	0.93	22.8	overcast	Hyla squirella	1	1.08	VES	adult		2	19 2002
bottomland hardwoods	0.93	22.8	overcast	Hyla squirella	2	2.15	VES	combined		2	19 2002
bottomland hardwoods	1.65	27.2	part-cloud	Hyla squirella	1	0.61	VES	adult		3	18 2002
bottomland hardwoods	0.9	30	part-cloud	Hyla squirella	4	4.44	VES	juvenile		3	18 2002
bottomland hardwoods	0.52	25.3	clear	Hyla squirella	x	level 1	call	adult		5	10 2002
bottomland hardwoods	2.43	27	clear	Hyla squirella	x	level 1	call	adult		5	10 2002
bottomland hardwoods	2.18	27.8	clear	Hyla squirella	x	level 1.5	call	adult		7	9 2002
bottomland hardwoods	2.18	27.8	clear	Hyla squirella	1	0.46	VES	adult		7	9 2002
bottomland hardwoods	0.87	29.4	part-cloud	Hyla squirella	x	level 1	call	adult		7	9 2002
bottomland hardwoods	0.48	26.7	clear	Nerodia erythrogaster	1	2.08	VES	neonate		9	12 2001
bottomland hardwoods	1.07	27.2	overcast	Nerodia erythrogaster	1	0.93	VES	neonate		9	12 2001
bottomland hardwoods	1.55 x	x		Nerodia erythrogaster	2	1.29	VES	combined		9	12 2001
bottomland hardwoods	2.43	27	clear	Nerodia erythrogaster	3	1.23	VES	adult		5	10 2002
bottomland hardwoods	1.07	27.2	overcast	Nerodia fasciata	1	0.93	VES	neonate		9	12 2001
bottomland hardwoods	1.82	20.3	clear	Nerodia fasciata	2	1.1	VES	juvenile		10	26 2001
bottomland hardwoods	1.58	20.3	part-cloud	Nerodia fasciata	1	0.63	VES	juvenile		1	17 2002
bottomland hardwoods	2.43	27	clear	Nerodia fasciata	2	0.82	VES	adult		5	10 2002

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method	Stage	Mo	Day	Year
bottomland hardwoods	1.23	20.9	clear	Pseudacris crucifer	x	level 1	call	adult	12	4	2001
bottomland hardwoods	1.67	20.9	overcast	Pseudacris crucifer	1	0.6	VES	adult	2	19	2002
bottomland hardwoods	2.43	27	clear	Pseudacris crucifer	2	0.82	VES	metamorph	5	10	2002
bottomland hardwoods	1.23	20.9	clear	Pseudacris feriarum	1	0.81	VES	adult	12	4	2001
bottomland hardwoods	1.67	20.9	overcast	Pseudacris feriarum	1	0.6	VES	adult	2	19	2002
bottomland hardwoods	0.93	22.8	overcast	Pseudacris feriarum	x	level 1.5	call	adult	2	19	2002
bottomland hardwoods	0.52	25.3	clear	Pseudacris feriarum	2	3.85	VES	metamorph	5	10	2002
bottomland hardwoods	1.07	27.2	overcast	Rana clamitans	1	0.93	VES	juvenile	9	12	2001
bottomland hardwoods	1.2	18.6	clear	Rana clamitans	4	3.33	VES	juvenile	10	26	2001
bottomland hardwoods	1.82	20.3	clear	Rana clamitans	1	0.55	VES	juvenile	10	26	2001
bottomland hardwoods	1.82	20.3	clear	Rana clamitans	1	0.55	VES	adult	10	26	2001
bottomland hardwoods	2.02	x	clear	Rana clamitans	3	1.49	VES	combined	10	26	2001
bottomland hardwoods	1.23	20.9	clear	Rana clamitans	3	2.44	VES	adult	12	4	2001
bottomland hardwoods	1.23	20.9	clear	Rana clamitans	1	0.81	VES	juvenile	12	4	2001
bottomland hardwoods	0.68	22.2	clear	Rana clamitans	1	1.47	VES	adult	12	4	2001
bottomland hardwoods	3.1	x	clear	Rana clamitans	5	1.61	VES	combined	12	4	2001
bottomland hardwoods	0.83	25.8	clear	Rana clamitans	1	1.2	VES	juvenile	7	16	2002
bottomland hardwoods	1.67	20.9	overcast	Rana clamitans	3	1.8	VES	adult	2	19	2002
bottomland hardwoods	0.9	30	part-cloud	Rana clamitans	2	2.22	VES	adult	3	18	2002
bottomland hardwoods	2.43	27	clear	Rana clamitans	2	0.82	VES	adult	5	10	2002
bottomland hardwoods	2.43	27	clear	Rana clamitans	1	0.41	VES	juvenile	5	10	2002
bottomland hardwoods	2.43	27	clear	Rana clamitans	3	1.23	VES	combined	5	10	2002
bottomland hardwoods	2.18	27.8	clear	Rana clamitans	2	0.92	VES	metamorph	7	9	2002
bottomland hardwoods	0.48	26.7	clear	Rana utricularia	1	2.08	VES	juvenile	9	12	2001
bottomland hardwoods	1.07	27.2	overcast	Rana utricularia	1	0.93	VES	adult	9	12	2001
bottomland hardwoods	1.07	27.2	overcast	Rana utricularia	2	1.87	VES	juvenile	9	12	2001
bottomland hardwoods	1.55	x	x	Rana utricularia	3	1.94	VES	combined	9	12	2001
bottomland hardwoods	1.2	18.6	clear	Rana utricularia	1	0.83	VES	adult	10	26	2001
bottomland hardwoods	1.82	20.3	clear	Rana utricularia	1	0.55	VES	juvenile	10	26	2001
bottomland hardwoods	1.82	20.3	clear	Rana utricularia	1	0.55	VES	adult	10	26	2001
bottomland hardwoods	2.02	x	clear	Rana utricularia	3	1.49	VES	combined	10	26	2001
bottomland hardwoods	0.57	19.1	clear	Rana utricularia	1	1.75	VES	juvenile	12	4	2001
bottomland hardwoods	1.23	20.9	clear	Rana utricularia	7	5.69	VES	adult	12	4	2001
bottomland hardwoods	0.68	22.2	clear	Rana utricularia	2	2.94	VES	adult	12	4	2001
bottomland hardwoods	3.1	x	clear	Rana utricularia	10	3.22	VES	combined	12	4	2001
bottomland hardwoods	1.58	20.3	part-cloud	Rana utricularia	1	0.63	VES	adult	1	17	2002

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method	Stage	Mo	Day	Year
bottomland hardwoods	1.67	20.9	overcast	Rana utricularia	2	1.2	VES	adult	2	19	2002
bottomland hardwoods	1.65	27.2	part-cloud	Rana utricularia	5	3.03	VES	adult	3	18	2002
bottomland hardwoods	0.52	28.6	part-cloud	Rana utricularia	6	11.54	VES	adult	3	18	2002
bottomland hardwoods	0.52	28.6	part-cloud	Rana utricularia	1	1.92	VES	juvenile	3	18	2002
bottomland hardwoods	0.52	28.6	part-cloud	Rana utricularia	7	13.46	VES	combined	3	18	2002
bottomland hardwoods	0.9	30	part-cloud	Rana utricularia	14	15.56	VES	adult	3	18	2002
bottomland hardwoods	2.43	27	clear	Rana utricularia	4	1.65	VES	adult	5	10	2002
bottomland hardwoods	2.43	27	clear	Rana utricularia	8	3.29	VES	metamorph	5	10	2002
bottomland hardwoods	2.43	27	clear	Rana utricularia	12	4.94	VES	combined	5	10	2002
bottomland hardwoods	2.18	27.8	clear	Rana utricularia	2	0.92	VES	juvenile	7	9	2002
bottomland hardwoods	2.18	27.8	clear	Rana utricularia	1	0.46	VES	adult	7	9	2002
bottomland hardwoods	2.18	27.8	clear	Rana utricularia	3	1.38	VES	combined	7	9	2002
bottomland hardwoods	0.87	29.4	part-cloud	Rana utricularia	1	1.15	VES	adult	7	9	2002
bottomland hardwoods	0.87	29.4	part-cloud	Rana utricularia	6	6.9	VES	juvenile	7	9	2002
bottomland hardwoods	0.87	29.4	part-cloud	Rana utricularia	7	8.05	VES	combined	7	9	2002
bottomland hardwoods	1.65	27.2	part-cloud	Terrapene carolina	1	0.61	VES	adult	3	18	2002
bottomland hardwoods	0.68	22.2	clear	Trachemys scripta	1	1.47	VES	adult	12	4	2001
bottomland hardwoods	2.18	27.8	clear	Trachemys scripta	1	0.46	VES	adult	7	9	2002
bottomland hardwoods	0.45	16.7	clear	x	0	0 x	x	x	12	4	2001
bottomland hardwoods	1.43	17.5	overcast	x	0	0 x	x	x	1	17	2002